

AMENDMENTS TO THE ABSTRACT:

Please replace the paragraph (Abstract) beginning at page 58, line 1 with the following rewritten version:

ABSTRACT

An instantaneous current and instantaneous voltage of a three-phase coil (~~10~~) of a brushless DC motor (~~6~~) are detected, and the internal condition of a compressor (~~1~~) is predicted from these detection values. The prediction about the internal condition of the compressor (~~1~~) is made in such a way that motor driving torque which is a parameter of a motor model is identified and poor lubrication, liquid compression or the like is predicted from this identified motor driving torque. This enables it to make, in real time, a failure forecast, failure diagnosis etc. on the compressor (~~1~~).